Reply to OA of: September 13, 2006

This listing of claims will replace all prior versions and listings of claims in the

application.

Listing of Claims:

Claims 1-16(cancelled).

17(currently amended). A Δ thyA strain of Vibrio cholerae deprived of its thyA

gene functionality by selected nucleotide sequence deletion and/or insertion in the

chromosome comprising at least one episomal autonomously replicating DNA element

having a functional thyA gene that enables the strain to grow in the absence of thymine

in the growth medium, wherein the [[al]] at least one episomal autonomously replicating

DNA elements element further comprises a structural gene encoding a homologous or

heterologous protein.

18(currently amended). A Δ thyA strain of Vibrio cholerae wherein the strain has

been deprived of its thyA gene functionality by site-directed mutagenesis in the V.

cholerae cholerae chromosome by deletion and/or insertion of nucleotides at the locus

of the thyA gene.

19(previously presented). The \triangle thy A strain of Vibrio cholerae according to claim

17, wherein the at least one episomal autonomously replicating DNA element is a

plasmid.

20(currently amended). The Δ thy A strain of Vibrio cholerae according to claim

17, wherein the at least [[on]] one episomal autonomously replicating DNA element has

a foreign thyA gene.

21(previously presented). The Δ thy A strain of Vibrio cholerae according to claim

20, wherein the foreign thyA gene is an E. coli thyA gene.

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22(previously presented). The Δ thy A strain of Vibrio cholerae according to claim 17, wherein the encoded heterologous protein is selected from heat labile enterotoxin B-subunit of Escherichia coli (LTB) and Schistosoma japonicum glutathione Stransferase 26 kD protein (GST 26 kD).

23(currently amended). The Δ thyA strain according to claim 17, wherein the thyA gene [[of]] in the chromosome has the nucleotide sequence of SEQ ID NO: 1, before it has been deprived of its functionality as a thyA gene.

24(currently amended). The DthyA Δ thyA strain of Vibrio cholerae according to claim 18, wherein the structural thy A gene [[of]] in the chromosome has the nucleotide sequence of nucleotides 738 -1688 in the SEQ ID NO:1 before it has been deprived of its functionality as a thy[[]]A gene and wherein approximately 200 209 base[[]]pairs [[of]] from said structural thy[[]]A gene [[is]] have been deleted followed by an insert of a non-coding region of DNA and 261 basepairs from Kan^R geneblock have been removed.

25(currently amended). The $\Delta_t hyA$ strain of Vibrio cholerae according to claim 18, wherein the strain has its structural thy gene removed from the thy gene [[of]] <u>locus in</u> the chromosome.

26(currently amended). The $\Delta_t hyA$ strain of Vibrio cholerae according to claim 17, wherein the strain has its structural thy A gene removed from the thy A gene [[of]] locus in the chromosome and wherein the at least one episomal autonomously replicating DNA element has a foreign thyA gene.

27(currently amended). The $\Delta_t hyA$ strain of Vibrio cholerae according to claim 26 wherein the foreign thy A gene is an E. coli thy A gene.

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28(previously presented). The Δ thyA strain of Vibrio cholerae according to claim 27, wherein the encoded heterologous protein is heat labile enterotoxin B-subunit of Escherichia coli (LTB).

29(previously presented). The Δ thyA strain of Vibrio cholerae according to claim 27, wherein the encoded heterologous protein is Schistosoma japonicum glutathione S-transferase 26 kD protein (GST 26 kD).